PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
980049.406PC International application No.	International filing date (day/mont	· · · · · · · · · · · · · · · · · · ·
ппентавона аррисавон мо.	1	
PCT/US2004/033666	13/10/2004	14/10/2003
Applicant		
X-CEPTOR THERAPEUTICS, INC	C.	
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Sea	rching Authority and is transmitted to the applicant
This International Search Report consists		
X It is also accompanied by	a copy of each prior art document of	cited in this report.
Basis of the report		
a. With regard to the language, the	international search was carried ou	t on the basis of the international application in the
language in which it was filed, un	less otherwise indicated under this i	tem.
		s of a translation of the international application furnished to
this Authority (Ru	ıle 23.1(b)).	•
b. With regard to any nucle	otide and/or amino acid sequence	e disclosed in the international application, see Box No. I.
0	and unpopulable (Can Day III)	
2. Certain claims were fou	ind unsearchable (See Box II).	
3. Unity of invention is lac	king (see Box III).	
	· · · · · · · · · · · · · · · · · · ·	
4. With regard to the title,		
X the text is approved as so	ubmitted by the applicant.	
the text has been established	shed by this Authority to read as followed	ows:
	•	
5. With regard to the abstract,		
I —	ubmitted by the applicant.	
the text has been establic	shed, according to Rule 38.2(b), by	this Authority as it appears in Box No. IV. The applicant
may, within one month fr	om the date of mailing of this interna	ational search report, submit comments to this Authority.
C Man and a state of the state		
6. With regard to the drawings,	nublished with the abetreet is Figure	No. 2
a. the figure of the drawings to be		
X as suggested by	the applicant. his Authority, because the applicant	failed to suggest a figure
1 = '	nis Authority, because the applicant his Authority, because this figure bet	
	his Authority, because this ligure bet be published with the abstract.	Characterists are invention.
	paronou with the aboutot.	

INTERNATIONAL SEARCH REPORT

International Application No PCT/US2004/033666

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07C43/23 A61K31/085

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07C A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BEILSTEIN Data, CHEM ABS Data, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 218 430 B1 (E. A. ALLEGRETTO) 17 April 2001 (2001-04-17) column 4, line 34 - column 7, line 3; claims; tables 1,2	1,28,29, 31
X	GB 1 410 275 A (SUMITOMO CHEMICAL COMPANY) 15 October 1975 (1975-10-15) page 8	1,2,28
X	CHEMISTRY LETTERS, 1997, pages 851-852, XP002329751 page 852, column 2	1,2
P,X	WO 2004/048309 A (ELI LILLY) 10 June 2004 (2004-06-10) examples 9,50,51,54	1,2, 28-31
	-/	

X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search 27 May 2005	Date of mailing of the international search report $10/06/2005$
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Wright, M

2

INTERNATIONAL SEARCH REPORT

International Application No PCT/US2004/033666

Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
Jalegory	oration of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.		
, Х	WO 2004/063345 A (ELI LILLY) 29 July 2004 (2004-07-29) examples 9,50,51,54		1,2,28,		
			7 7		

2

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claims 29-33 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box II.2

Claims Nos.: 4,20-24

Present claims 1-7, 9, 11, 13, 14, 16-18, 20-33 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds clearly identified in the claims and examples 1-5. The products of example 6D and 6E appear to relate to compounds of formula (I) in which both X and Y are linked via oxygen atoms to the phenyl rings; this is at variance with the definition of X in claim 1, i.e. optionally substituted alkyl, optionally substituted alkenyl or optionally substituted alkynyl. Compounds in which both X and Y are linked to phenyl rings via oxygen atoms have not been searched.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

International application No. PCT/US2004/033666

INTERNATIONAL SEARCH REPORT

Box II Observa	tions where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International S	earch Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. χ Claims No because the	s.: ney relate to subject matter not required to be searched by this Authority, namely:
human/	gh claims 29-33 are directed to a method of treatment of the animal body, the search has been carried out and based on the alleged s of the compound/composition.
2. Claims No because the an extent	s.: 4,20-24 ney relate to parts of the International Application that do not comply with the prescribed requirements to such that no meaningful International Search can be carried out, specifically:
see FU	RTHER INFORMATION sheet PCT/ISA/210
3. Claims No because the	es.: hey are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observa	tions where unity of invention is lacking (Continuation of item 3 of first sheet)
This International S	earching Authority found multiple inventions in this international application, as follows:
	-
-	
1. As all requirements searchable	uired additional search fees were timely paid by the applicant, this International Search Report covers all e claims.
2. As all sea of any add	rchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment ditional fee.
3. As only so covers on	ome of the required additional search fees were timely paid by the applicant, this International Search Report by those claims for which fees were paid, specifically claims Nos.:
No require restricted	ed additional search fees were timely paid by the applicant. Consequently, this International Search Report is to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protes	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No
PCT/US2004/033666

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6218430	B1	17-04-2001	AT	253032 T	15-11-2003
			ΑU	756336 B2	09-01-2003
			ΑU	5485299 A	14-03-2000
			CA	2339775 A1	02-03-2000
			DE	69912450 D1	04-12-2003
			DE	69912450 T2	29-07-2004
			DK	1107940 T3	08-03-2004
			EP	1107940 A1	20-06-2001
	•		ES	2207273 T3	16-05-2004
			JР	2002523388 T	30-07-2002
			PT	1107940 T	31-03-2004
			MO	0010958 A1	02-03-2000
GB 1410275	Α	15-10-1975	JP	49031651 A	22-03-1974
			ΑU	5816173 A	23-01-1975
			BE	802539 A1	16-11-1973
			DD	106357 A5	12-06-1974
			DE	2336107 A1	31-01-1974
			FR	2193592 A1	22-02-1974
			HU	166643 B	28-04-1975
			NL	7310057 A	22-01-1974
			ZA	7304946 A	31-07-1974
WO 2004048309	Α	10-06-2004	AU	2003287500 A1	18-06-2004
			WO	2004048309 A1	10-06-2004
WO 2004063345	Α	29-07-2004	WO	2004063345 A2	29-07-2004